

In the Claims: 15-20, 30-33, 36-38, and 43-47

Please cancel claims ~~16~~ and ~~44~~ and replace claims 15, 37, and 43, all as shown below.

All pending claims are reproduced below, including those that remain unchanged. Marked up copies of the amended claims illustrating the changes are shown in the Appendix to this Response.

15. (Once Amended) A method for reconstruction of an image, comprising the steps of:
selecting pixels of the image to be reconstructed from plural planes of data representing the image, wherein said step of selecting comprises selecting pixels of the image from one of a single plane and an arithmetic operation of pixels from more than one of said plural planes.

17. The method according to Claim 15, wherein:

said step of selecting comprises the step of,

selecting pixels based on a selector plane that identifies, for each part of the original image, whether the original image information is maintained in an upper plane or a combination of the upper and at least one lower plane of said plural planes.

18. The method according to Claim 15, further comprising the step of:

decompressing said plural planes, including at least an upper plane and a lower plane, from a compressed state.

19. The method according to Claim 18, wherein:

said step of selecting comprises,

combining said upper and lower decompressed planes to produce an additive image, and

selecting pixels of the reconstructed image from corresponding pixel locations of one of said decompressed upper plane and said additive image.

20. The method according to Claim 18, wherein:

said step of decompressing includes the step of,
decompressing a selector plane maintaining information identifying which pixels of each other decompressed plane are representative of pixels of the reconstructed image; and
said step of selecting comprises, selecting pixels for the reconstructed image based on the selector plane information.

30. An apparatus for reconstructing an image, comprising:

a decompression device configured to decompress planes representing the image; and
a selection device configured to select image data from at least one of the planes and an arithmetic operation between corresponding image sections of at least two of the decompressed planes to reconstruct the image.

31. The apparatus according to Claim 30, wherein said selection device is further configured to weight an amount of said result derived from said upper plane based on a predetermined factor.

32. The apparatus according to Claim 31, wherein said predetermined factor is a value of a selector plane that identifies how much of said result is derived from each of said upper and lower planes.

33. The apparatus according to Claim 32, wherein said value of said selector plane is based on at least one of super-resolution and fine edge detail in corresponding locations of said image.

36. An apparatus for image reconstruction, comprising:

means for reconstructing an image based on pixels selected from one of at least one of plural planes representing the image and an arithmetic operation between corresponding pixels of at least two of said plural planes.

37. (Once Amended) The apparatus according to Claim 36, further comprising:

means for decompressing said plural planes and at least one selection mask of the image to be reconstructed.

38. The apparatus according to Claim 36, wherein said means for reconstructing includes means for selecting pixels based on said at least one selector mask.

39. (Once Amended) A computer readable media, storing instructions, that when loaded into a computer, cause the computer to perform the step of:

selecting pixels of the image to be reconstructed from plural planes of data representing the image, wherein the step of selecting comprises selecting pixels of the image from one of a single plane and an arithmetic operation of pixels from more than one of said plural planes.

45. The computer readable media and instructions according to Claim 43, wherein:

said step of selecting comprises the step of,